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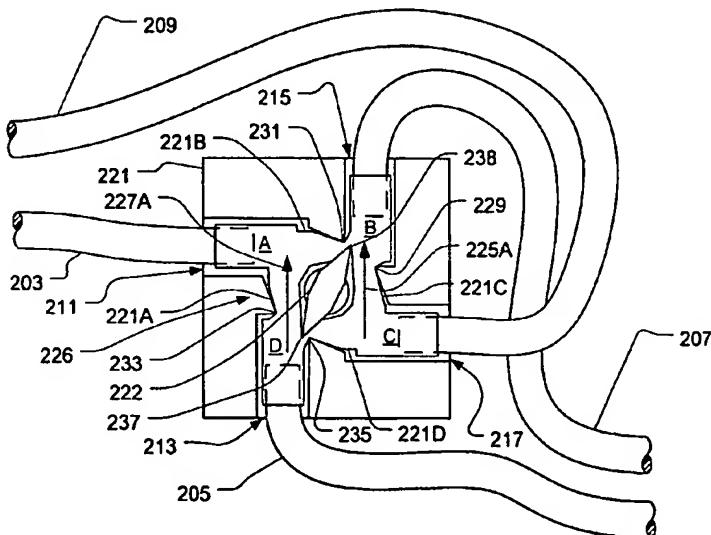
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(54) Title: IMPROVED METHODS AND APPARATUS FOR LEAK DETECTION IN BLOOD PROCESSING SYSTEMS



(57) Abstract: A blood processing system includes a flow reversing device with at least an air sensor in the venous line located near the patient. During treatment, blood flow is reversed to cause air to infiltrate the blood lines if any disconnections or breaks in the blood line are present. One means for placing the sensor close to the patient is to provide the flow switching device and sensors in a small lightweight module that can be located close to the treatment machine. Another is to provide a module with just the sensors near the access.

WO 2005/046439 A2



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